

## **Statement of Work for Web-Based EIAP Checklist – Part 3**

### **1.0 GENERAL**

The work to be performed under this Statement of Work (SOW) shall consist of upgrading and enhancing an existing web-based Environmental Impact Analysis Process (EIAP) Checklist developed by the CADD/GIS Technology Center (the Center) to the extent described under paragraph 3.0 below. This project has been assigned Center Project No. 01.040.

### **2.0 BACKGROUND**

The National Environmental Policy Act (NEPA) is our basic national charter for protecting the environment. It seeks to balance a broad range of environmental factors as well as other considerations of national policy. It sets out two basic and related objectives: ensuring that agency decision-makers take environmental factors into account and to mitigate potential environmental damage. All Federal government organizations are required to comply with the NEPA. NEPA requires that all Davis Bacon act compliant construction projects be screened against a checklist of environmental considerations and evaluations (e.g., endangered species, wetlands, cultural resources, hazardous waste sites, etc.).

The Environmental Impact Analysis Process (EIAP) is a method used by various DoD and Federal organizations in ensuring that compliance with the requirements of NEPA is achieved. An electronic GIS based checklist (developed for use by all Federal government organizations) would expedite this process, resulting in millions of dollars in annual savings within the Federal government alone.

Robins Air Force Base (AFB) and the Patuxent River Naval Air Station (PAX) have already taken steps to automate this process under current procedures by utilizing information technology solutions such as Geographical Information Systems (GIS) and web-based applications. The Center's Environmental FWG used the PAX and Robins AFB EIAP systems as the baseline for initial project development (Parts 1 and 2), with improvements made as necessary to provide a web-enabled environmental planning decision tree tool, which could be used by all DoD and Federal Government organizations. Information concerning the existing EIAP application (CADD/GIS Technology Center Project No. 01.040) is available at: [http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01\\_040.htm](http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01_040.htm)

Fully enabling the spatial components of EIAP by Federal Government organizations would facilitate a fully replicable chain of decisions as is required under NEPA, thereby providing the Federal Government with a more complete administrative record to support its activities. Project proponents, managers, and analysts would be working from a centralized project information file through which they could trace the project's progress throughout its lifecycle; completing the automation of EIAP, which have already begun at Robins AFB and PAX, could provide a model to be implemented across the Department of Defense.

### **3.0 DESCRIPTION OF WORK TO BE PERFORMED**

#### **3.1 Web-based Interactive EIAP Application with Supporting Information:**

**3.1.1** Migrate the current EIAP web-based application to a format compliant with Navy/Marine Corps Intranet (NMCI) requirements. The current EIAP web-based application (developed under Parts 1 and 2) was developed using Macromedia Shockwave web-based programming software. For NMCI compliance, the EIAP shall be entirely web-based, and function without the need to install additional software (or “plug-ins”) on the User’s computers. The Part 3 EIAP web-based application shall be based upon Microsoft .NET technology. To minimize future programming maintenance requirements, the code, decision-tree questions and logic, and supporting information shall be maintained in the EIAP database (currently in a Microsoft Access 2000 digital format). The Contractor shall compile the final EIAP web-based application on a designated CADD/GIS Technology Center server.

**3.1.2** The CADD/GIS Technology Center (and Center’s Environmental Field Working Group) will encourage participation from Army, U.S. Army Corps of Engineer, and other DoD and Federal agencies in expanding the EIAP’s NEPA Checklist Decision Tree. The Contractor shall incorporate contributions from other agencies into the current EIAP Microsoft Access database, and expand the structure and content of the database as required. The Part 3 EIAP web-based application shall to be developed as an open framework, which will serve as a baseline upon which the Center, and/or other DoD, Federal, and other organizations can enhance and develop scaled applications. The Contractor shall incorporate the capability whereby different DoD and Federal agencies can edit the Decision Tree for their own requirements. The ability for future incorporation of State and Local government requirements shall also be addressed.

**3.1.3** Update the EIAP Paper (Current paper is available at the EIAP Project website).

#### **3.2 GIS-Enabled EIAP:**

**3.2.1** Develop an initial capability for integrating the EIAP application with a SDSFIE compliant ESRI ArcGIS Geodatabase.

**3.2.2** Investigate the feasibility of future integration with the ESRI ArcGIS based e-Planning initiative.

### **4.0 REQUIREMENTS**

#### **4.1 Contractor Deliverables.**

**4.1.1** A monthly progress report detailing project status shall be electronically delivered to the Center POC and COR via E-mail on the 15<sup>th</sup> of each month.

**4.1.2** Complete all work activities and deliverables according to the Target Schedule (Paragraph 5.0).

**4.1.3** Complete Beta & Final EIAP applications, with support files and information according to the Target Schedule (Paragraph 5.0). Contractor shall test all web-based application code for proper functionality prior to delivery to the Center. The Contractor shall deliver both a Development CD and an Installation CD to the Center POC. The Installation CD will contain the software tools for incorporation into the Master used to create copies for distribution to the public. The Development CD shall contain all files (documentation, source code, etc.) created during the development of the application(s).

**4.1.4** White papers, reports, spreadsheets, databases shall be prepared using a digital media format compatible with Microsoft Office products, and approved by Center POC. Web based applications and code shall be developed using the current Microsoft .NET technology, as approved by Center Internet POC. GIS based applications shall be based upon the current releases of either ESRI ArcGIS 8.x or 9.x, and the most current release of the SDSFIE.

**4.2 Government Furnished Items.** Current EIAP web-based application, EIAP Microsoft Access database, and supporting files and information.

**4.3 Travel.** The Contractor shall be required to travel to Vicksburg, Mississippi, and San Antonio, Texas, to attend one meeting at each location. All other meetings will be held at the Contractor's office.

**4.4 Materials.** Miscellaneous material expenses shall be incurred for long distance phone charges, mailings, copies, and recordable media such as diskettes/CD's.

**4.5 CADD/GIS Technology Center (Center) Point-of-Contact (Center POC).**

Mr. Bobby Carpenter, The CADD/GIS Technology Center, will be the Center POC for this delivery order. All questions concerning the work requirements, schedule, and project coordination shall be referred to the Center POC. In addition, the contractor shall coordinate the development and delivery of all deliverables prepared under this contract with the Center POC. The contractor shall provide electronic copies of each submittal, at the time intervals indicated, by mail and E-mail to the Center POC at:

Bobby Carpenter  
The CADD/GIS Technology Center  
Army Engineer Research and Development Center  
ATTN: CEERD-ID  
Building 8000, Room 1216  
3909 Halls Ferry Road  
Vicksburg, MS 39180-6199

E-mail: [Bobby.G.Carpenter@erdc.usace.army.mil](mailto:Bobby.G.Carpenter@erdc.usace.army.mil)

Phone: 601-634-4572

Fax: 601-634-4584

**4.6 CADD/GIS Technology Center (Center) Internet Point-of-Contact (Center Internet POC).**

Mr. Drew Anderson, The CADD/GIS Technology Center, will be the Center Internet POC for this delivery order. All technical questions concerning CADD/GIS Technology Center Internet requirements, and web-based application programming and development requirements, shall be referred to the Center Internet POC. The contractor shall also provide electronic copies of each submittal, at the time intervals indicated, by mail and E-mail to the Center Internet POC at:

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The CADD/GIS Technology Center  
Army Engineer Research and Development Center  
ATTN: CEERD-ID  
Building 8000, Room 1217  
3909 Halls Ferry Road  
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E-mail: [Drew.L.Anderson@erdc.usace.army.mil](mailto:Drew.L.Anderson@erdc.usace.army.mil)  
Phone: 601-634-4226  
Fax: 601-634-4584

## 5.0 TARGET SCHEDULE

Item Number	Item Description	Scheduled Date (Calendar) after Award
4.3	Initial Meeting (At Contractor's Office)	15
3.1.2	Contractor Submit <b>1<sup>st</sup> Draft Part 3 EIAP Decision Tree Database</b> Deliverable	90
3.1.1	Contractor Submit <b>1<sup>st</sup> Draft Part 3 EIAP Web-Based Application</b> Deliverable	120
3.2.1	Contractor Submit <b>Draft Part 3 EIAP GIS Integration Recommendations Paper</b> Deliverable	140
	Government/Contractor Review Meeting (Vicksburg, MS)	150
3.1.2	Contractor Submit <b>2<sup>nd</sup> Draft Part 3 EIAP Decision Tree Database</b> Deliverable	210
3.1.1	Contractor Submit <b>2<sup>nd</sup> Draft Part 3 EIAP Web-Based Application</b> Deliverable	210
3.1.3	Contractor Submit <b>Draft Part 3 Paper</b> Deliverable	210
	Government Submit Review Comments to Contractor	270
3.2.1	Contractor Submit <b>Final Part 3 EIAP GIS Integration Capability &amp; Paper</b> Deliverable	300
3.1.2	Contractor Install <b>Final Part 3 EIAP Decision Tree Database Deliverable</b> (Vicksburg, MS)	330
3.1.1	Contractor Install <b>Final Part 3 EIAP Web-Based Application</b> (Vicksburg, MS)	330
3.1.3	Contractor Submit <b>Final Part 3 Paper</b> Deliverable	330
3.2.2	Contractor Submit <b>EIAP Integration with ESRI e-Planning Recommendations Paper</b> Deliverable	330